

# Environmental Management Completed Projects 2005-Present

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**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure



Before, during, and after pictures of the K-33 building decontamination, decommissioning, demolition, and disposal project at Oak Ridge's East Tennessee Technology Park.

In order to promote transparency with stakeholders and the public, the Office of Environmental Management (EM) is posting key project management information. This web page provides the list of completed EM cleanup projects from various sites across the country from 2005 to present, along with the each project's performance related to cost, schedule, and scope.

The EM cleanup projects address large quantities of radioactive wastes, spent nuclear fuel, excess plutonium and uranium, thousands of contaminated facilities, and contaminated soil and groundwater resulting from five decades of nuclear weapons production and energy research during the Cold War.

The EM cleanup projects fall into several categories including soil and water remediation, ground water remediation, solid waste stabilization and disposition, nuclear and non-nuclear decommissioning and demolition. In each of these cleanup categories, EM has to complete a series of individual projects at the various sites. The cleanup at a site is broken into multiple individual projects with a well-defined scope, schedule, and cost.

The table below shows the individual projects EM has completed in each category at each site. At many sites, additional projects are ongoing or will be needed in the future to finish the cleanup in each category.

The table highlights the projected costs, actual costs, projected completion dates, and actual completion dates. The EM projects were completed through November 30, 2012 with the following success metrics:

- 99 percent (79 of 80 projects) completed all scope defined at project start
- 91 percent (73 of 80 projects) completed on schedule
- 88 percent (70 of 80 projects) completed within 10 percent of project budget

## Environmental Management Completed Projects 2005-Present

Site	Category	Project Name	Notes	Approved Budget \$M	Actual Cost \$M	Approved Forecasted Completion (Calendar Year)	Actual Approval Date (Calendar Year)	Cost Success?	Schedule Success?	Completed Scope?
Argonne National Laboratory, IL	Soil and Water Remediation	Soil and Water Remediation ANLE-0030	a	\$ 28	\$ 30	2007	2007	Yes	Yes	Yes
	Nuclear Facility Deactivation and Decommissioning	Nuclear Facility Deactivation and Decommissioning ANLE-0040		\$ 17	\$ 17	2009	2009	Yes	Yes	Yes
		Nuclear Facility D&D Building 310 ANLE-0040.NEW.R1.1		\$ 13	\$ 8	2011	2011	Yes	Yes	Yes
		Nuclear Facility D & D Building 330 ANLE-0040.NEW.R1.2		\$ 34	\$ 15	2011	2011	Yes	Yes	Yes
Ashtabula, OH	Soil and Water Remediation	Soil and Water Remediation OH-AB-0030	a	\$ 157	\$ 147	2006	2006	Yes	Yes	Yes
Brookhaven National Lab, NY	Soil and Water Remediation	Soil and Water Remediation BRNL-0030	a	\$ 196	\$ 202	2005	2005	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D-Brookhaven Graphite Research Reactor BRNL-0040		\$ 54	\$ 74	2012	2012	No	Yes	Yes
		Nuclear Facility D&D-High Flux Beam Reactor BRNL-0041		\$ 12	\$ 16	2012	2010	No	Yes	Yes
Columbus (West Jefferson), OH	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D OH-CL-0040	a	\$ 163	\$ 163	2006	2006	Yes	Yes	Yes
Fernald, OH	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition OH-FN-0013	a	\$ 1,489	\$ 1,599	2006	2006	Yes	Yes	Yes
	Soil and Water Remediation	Soil and Water Remediation OH-FN-0030	a	\$ 1,110	\$ 1,069	2006	2006	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Non-Nuclear Facility D&D OH-FN-0050	a	\$ 512	\$ 234	2006	2006	Yes	Yes	Yes
Idaho National Laboratory, ID	Nuclear Materials Stabilization and Disposition	Nuclear Materials Stabilization and Disposition ID-0011		\$ 35	\$ 11	2010	2010	Yes	Yes	Yes
	Construction Line Item Project	Sodium Bearing Waste Treatment Plant 06-D-401		\$ 462	\$ 571	2010	2012	No	No	Yes
	Soil and Water Remediation	Soil and Water Remediation - 2012 - Idaho ID-0030B.C1		\$ 743	\$ 556	2012	2012	Yes	Yes	Yes
		Buried Waste ID-0030B.R1.1		\$ 75	\$ 62	2011	2011	Yes	Yes	Yes
		In-Situ Grouting ID-0030B.R1.2		\$ 23	\$ 7	2011	2011	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D - INL ID-0040B		\$ 796	\$ 356	2012	2012	Yes	Yes	Yes
Inhalation Toxicology Lab, NM	Soil and Water Remediation	Soil and Water Remediation CBC-ITL-0030	a	\$ 8	\$ 11	2006	2008	No	No	Yes
Kansas City Plant, MO	Soil and Water Remediation	Soil and Water Remediation VL-KCP-0030	a	\$ 29	\$ 28	2006	2006	Yes	Yes	Yes
Lab for Energy Related Health Research, CA	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning LEHR-0040	a	\$ 41	\$ 38	2005	2005	Yes	Yes	Yes
Lawrence-Livermore National Lab, CA	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition LLNL-0013	a	\$ 74	\$ 72	2006	2005	Yes	Yes	Yes
	Soil and Water Remediation	Soil and Water Remediation LLNL-0030	a	\$ 123	\$ 123	2006	2005	Yes	Yes	Yes
		Soil and Groundwater Remediation Project, Site 300 VL-LLNL-0031	a, c	\$ 123	\$ 125	2009	2010	Yes	No	Yes
Lawrence-Berkeley National Lab, CA	Soil and Water Remediation	Soil and Water Remediation CBC-LBNL-0030	a	\$ 34	\$ 34	2006	2007	Yes	No	Yes

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Los Alamos Site Office, NM	Nuclear Facility Decontamination and Decommissioning	D&D of the Tritium Systems and Test Assembly (TSTA) Facility, Capital Asset VL-LANL-0040-N.R1		\$ 15	\$ 14	2012	2010	Yes	Yes	Yes
	Soil and Water Remediation	Defense Soil and Groundwater - GW Wells LANL-0030D.R1.2		\$ 45	\$ 38	2011	2011	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Defense D&D-TA-21 LANL-0040-D.R1		\$ 74	\$ 49	2011	2011	Yes	Yes	Yes
Moab UMTRA Project, UT	Soil and Water Remediation	Uranium Mill Tailings Remediation Project (UMTRA) CBC-MOAB-0031.C1		\$ 41	\$ 39	2012	2009	Yes	Yes	Yes
Mound, OH	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition OH-MB-0013	a	\$ 202	\$ 265	2006	2006	No	Yes	Yes
	Soil and Water Remediation	Soil and Water Remediation OH-MB-0030	a	\$ 164	\$ 250	2006	2006	No	Yes	Yes
		Soil and Water Remediation - OU-1 OH-MB-0031		\$ 35	\$ 47	2006	2011	No	No	Yes
		Mound OU-1 OH-MB-0031-NEW.R1		\$ 20	\$ 18	2009	2011	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D OH-MB-0040	a	\$ 484	\$ 505	2006	2006	Yes	Yes	Yes
Nevada Test Site, NV	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition VL-NV-0013		\$ 30	\$ 29	2008	2009	Yes	No	Yes
Oak Ridge, TN	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition OR-0013	a	\$ 461	\$ 465	2006	2006	Yes	Yes	Yes
	Soil and Water Remediation	Soil and Water Remediation OR-0030	a	\$ 352	\$ 351	2006	2006	Yes	Yes	Yes
		Soil and Water Remediation - Offsites OR-0031	a	\$ 13	\$ 11	2012	2010	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Zone 1 Remedial Action OR-0040.C2		\$ 19	\$ 19	2011	2011	Yes	Yes	Yes
		ETTP Main Plant Area D&D Facilities OR-0040.C3		\$ 19	\$ 11	2011	2011	Yes	Yes	Yes
		K-27 Demolition Preparation Project OR-0040.R1.1		\$ 27	\$ 26	2011	2011	Yes	Yes	Yes
		K-33 Demolition Project OR-0040.R1.2		\$ 65	\$ 58	2012	2012	Yes	Yes	Yes
		Cell 6 Expansion OR-0041.C1		\$ 31	\$ 22	2012	2011	Yes	Yes	Yes
		Disposal Facility Expansion - Cell 5 OR-0041.R1.3		\$ 34	\$ 18	2012	2010	Yes	Yes	Yes
		Disposal Facility Expansion--Sanitary Landfill OR-0041.R1.4		\$ 11	\$ 9	2011	2011	Yes	Yes	Yes
		Y-12 Biology Complex D&D OR-0041.NEW.R1.2		\$ 30	\$ 14	2011	2011	Yes	Yes	Yes
		Tank W1A OR-0042.C1.1		\$ 48	\$ 48	2012	2012	Yes	Yes	Yes
		Facility Demolition Building 3026/Wooden Facilities OR-0042.R1.2		\$ 13	\$ 12	2012	2011	Yes	Yes	Yes
		Bethel Valley Burial Grounds OR-0042.R1.5		\$ 18	\$ 18	2011	2011	Yes	Yes	Yes
		Facility Demolition-Small Facilities OR-0042.R1.6		\$ 11	\$ 11	2012	2012	Yes	Yes	Yes
		Non-Defense Facility Demolition - 2000 Complex OR-0042.NEW.R2.2		\$ 13	\$ 9	2011	2011	Yes	Yes	Yes

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Office of River Protection, WA	Solid Waste Stabilization and Disposition	SY-Farm Transfer Line Upgrade ORP-0014.R1.5		\$ 18	\$ 16	2011	2011	Yes	Yes	Yes
Pantex Plant, NM	Soil and Water Remediation	Soil and Water Remediation VL-PX-0030	a, c	\$ 182	\$ 182	2009	2009	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D VL-PX-0040	a, c	\$ 18	\$ 15	2007	2007	Yes	Yes	Yes
Portsmouth Paducah Project Office (PPPO), KY and OH	Construction Line Item Project	Depleted Uranium Hexafluoride Conversion Project (DUF6) Portsmouth & Paducah 02-U-101		\$ 345	\$ 592	2011	2010	No	No	Yes
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D - Paducah Gaseous Diffusion Plant PA-0040.C1		\$ 30	\$ 35	2012	2012	No	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	C-746-A East End Smelter Project PA-0040.R1.3		\$ 31	\$ 19	2011	2010	Yes	Yes	Yes
		C-340 Complex D&D PA-0040.R1.2		\$ 36	\$ 36	2011	2011	Yes	Yes	Yes
Richland, WA	Soil and Water Remediation	Groundwater Remedy Implementation for 200-ZP-1 and 100 DX Treatment Systems RL-0030.C		\$ 385	\$ 344	2012	2012	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	U Plant/Other D&D RL-0040.R1.1		\$ 257	\$ 201	2012	2012	Yes	Yes	Yes
		Outer Zone D&D RL-0040.R1.2		\$ 115	\$ 88	2011	2011	Yes	Yes	Yes
		100 K Area Remediation RL-0041.R1.1		\$ 203	\$ 186	2011	2011	Yes	Yes	Yes
		ERDF Cell Expansion RL-0041.R1.2		\$ 56	\$ 48	2011	2011	Yes	Yes	Yes
		Accelerated Remediation & Disposal RL-0041.R1.3		\$ 89	\$ 47	2011	2011	Yes	Yes	Yes
		Super Cell 10 RL-0041.R1.4		\$ 36	\$ 30	2011	2011	Yes	Yes	Yes
		618-10 Trench Remediation RL-0041.R2		\$ 72	\$ 57	2011	2011	Yes	Yes	Yes
		Trench Remediation 618-10 RL-0041.R3		\$ 20	\$ 20	2012	2012	Yes	Yes	Yes
Rocky Flats, CO	Nuclear Materials Stabilization and Disposition	NM Stabilization and Disposition RF-0011	b	\$ 7,500	\$ 6,707	2006	2005	Yes	Yes	Yes
	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition RF-0013	b			2006	2005	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility D&D-North Side Facility Closures RF-0040	b			2006	2005	Yes	Yes	Yes
		Nuclear Facility D&D-South Side Facility Closures RF-0041	b			2006	2005	Yes	Yes	Yes
Savannah River Site, SC	Radioactive Liquid Tank Waste Stabilization and Disposition	Saltstone Disposal Unit 2 SR-0014.C3.1		\$ 38	\$ 33	2012	2012	Yes	Yes	Yes
	Soil and Water Remediation	P-Area Ash Basin Remedial Action Project SR-0030.R1.3		\$ 30	\$ 18	2011	2011	Yes	Yes	Yes
		R-Area Ash Basin Remedial Action Project SR-0030.R1.5		\$ 12	\$ 9	2011	2011	Yes	Yes	Yes
	Nuclear Facility Decontamination and Decommissioning	P Reactor Decommissioning Project SR-0030.R1.2		\$ 142	\$ 81	2012	2012	Yes	Yes	Yes
		R-Reacto Decommissioning Project SR-0030.R1.4		\$ 149	\$ 76	2012	2012	Yes	Yes	Yes
		Heavy Water Components Test Reactor Building Decommissioning SR-0030.R3.2		\$ 11	\$ 9	2011	2011	Yes	Yes	Yes

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Sandia National Laboratory, NM	Soil and Water Remediation	Soil and Water Remediation VL-SN-0030	a, c	\$ 235	\$ 236	2009	2009	Yes	Yes	Yes
Separations Process Reactor Unit, NY	Soil and Water Remediation	Contaminated Soil Removal - North Field SPRU-0040.R1.2		\$ 15	\$ 13	2011	2011	Yes	Yes	Yes
West Valley Demonstration Project, NY	Nuclear Facility Decontamination and Decommissioning	Main Plant D&D WV-0040.C1		\$ 46	\$ 99	2011	2011	No	Yes	No
(a) These projects were baselined at different times and under different guidance. The cost, schedule, and scope success is measured against values reported to Congress in July 2004 by the Department of Energy's Office of Management and Budget.				\$ 18,697	\$ 17,119	Total (of 80 Projects)		70	73	79
(b) Rocky Flats Closure Project cost, schedule, and scope success is measured against the 2001 Closure Baseline.						% Success		88%	91%	99%
(c) Projects achieved Physical Completion in 2009. Formal Project Closeout (Critical Decision-4) documentation was completed in 2010.										